Journal of Neuropathology and Experimental Neurology
Copyright © 1987 by the American Association of Neuropathologists
Vol. 46, No. 6
November, 1987
pp. 703–706

AUTHOR INDEX

*—Original Article
A—Abstract of 63rd Annual AANP Meeting
B—Book Review
L—Letter
M—In Memoriam

Aebi, U, ^305
Aguzzi A, ^372
Ahmad BK, ^356
Aikawa M, *223, ^362
Akai F, ^383, ^384
Akers M-A, ^380
Aksamit AJ, *556
Ali-Osman F, ^371
Allen GS, ^346
Alvord EC, Jr, ^364, ^370, ^391
Alzofon J, ^377
Ames MB, ^398
Anderson A, ^383
Anderson ML, ^403
Andrews N, ^350
Ang LC, ^402
Angelo JN, ^400, ^402
Angus EJ, ^356
Antel JP, ^386
Antel S, ^393
Anthony A, *28
Anwer U, ^390
Appel MJG, ^397
Arezzo JC, ^368
Armstrong DL, ^359
Atack EA, ^388
Autilio-Gambetti L, ^334, ^374, ^376, ^379
Aye TM, *223
Azmitia EC, B508
Azzarelli B, ^385

Bakay RA, ^377
Bale JF, Jr, *72
Barrett CP, ^350
Barringer JR, *461
Barron KA, ^353
Baskin GB, ^349
Baudrimont M, ^354
Baunstein V, *250
Beal MF, *12
Beck DW, ^399, *682
Becker D, ^384
Becker LE, ^362
Bell D, ^395
Bell MA, ^400, ^401, ^402
Bembry J, ^399
Benhaiem-Sigaux N, ^344
Benveniste EN, *84
Berger M, ^371
Bergman I, B508
Berman M, ^391
Bernaudin JF, ^344
Berry AD, 3d, ^344
Berry K, ^367
Berry RG, B609
Betz AL, *130
Beyreuther K, ^395
Bignami A, ^361
Bigner DD, ^373, ^389, *623
Bigner SH, ^373, ^389
Binder LI, ^349, ^376, ^377
Bingham P, ^363
Bird ED, *12
Bird TD, ^341
Black JA, *167
Blaker WD, ^353
Blankenhorn EP, ^367
Blanks JC, ^362
Boggs AL, *214
Bonnin JM, ^394
Bornstein MB, ^365, ^368, ^392
Bouldin TW, ^378, M505, *644
Bourre J-M, *585
Bowman PD, *130
Boysen G, *533
Brady RO, ^347
Bril V, ^380
Brinster RL, ^373
Brody BA, *283
Brooke M, ^355
Brosnan CF, *250, ^365, ^368, ^392
Brown EC, *567
Brumback RA, ^355
Bryan RN, ^383
Bygiani O, ^387
Bunge RP, ^351
Burger PC, ^372, ^373, ^389
Byler CL, ^340

Caine ED, ^336
Cancilla PA, *141
Carraro U, *315
Casanova MF, *567
Cashman NR, ^386
Caughlin J, ^371
Challa VR, ^400, ^401, ^402
Chan F, ^362
Chance B, ^403
Chasen JL, ^390
Cheng RC, ^382
Cherry J, *544
Cheung M, ^384
Cho E-S, ^349, ^356, ^366, ^385, *474, *495
Cho KG, ^372
Choi BH, ^352, ^370
Chojnacki B, *407
Chou SM, ^375, ^398
Churg A, *50
Clark AW, ^387
Clasen RA, B114, ^345
Coester H, *682
Cohen M, ^365
Cohen MM, *419
Collins VP, *634
Cork LC, ^335, ^395
Cowman G, ^349
Csiza CK, ^353
Curry B, ^387

Dahl D, ^361
Dallaire L, ^345
Dancea S, ^388, ^393
Danies F, ^377
Darlington GJ, ^373
Davies P, *262, ^335, ^336, ^374, ^375
Davis L, ^377
Davis RL, ^372
DeArmond SJ, ^338, ^372
DeGirolami U, B232, ^390
DeKosky ST, ^337
de la Monte SM, ^340, ^342, ^391
Dembitzer HM, ^348
Dentinger MP, ^353, ^382
Destee A, *585
DeTeresa R, *262
Dickson DW, ^374, ^375
Doebler JA, *28, ^336
Dolman CL, *50
Donati EJ, ^350
Dorman ME, *269
Dorovini-Zis K, *130
Drayer BP ^389, ^401
Duckett S, ^364, ^394
Duffy LK, ^396
Duncan ID, ^351, ^357
Dvorak R, ^340

Earle KM, M109
Eckhaus M, ^335
Edwards KR, ^388
Eichhorn JH, ^391
El-Yabroudi J, ^340
Elder GA, *653
Elkin R, ^365, ^368, ^392
Ellisman MH, ^377
Epstein LG, ^349, *474
Eskin TA, ^336
Eto K, ^341

Fan KJ, ^390
Favaro G, *315
Feeback DL, ^355
Feliksik JM, *419
Feringa ER, ^359, *695
Ferrante RJ, *12, ^375
Filiano JJ, ^360
Fink DJ, *485

Fleury J, ^344
Forno LS, *374
Fratkin JD, ^388
Freed WJ, ^352
Frey WH, ^339
Fu SM, ^333
Fujioka Y, ^357

Gade G, ^384
Galloway PG, *185, ^374
Gambetti P, *185, ^334, ^374, ^376, ^379
Garcia JH, ^403
Gaskin F, ^333
Gauthier S, ^397
Gelman BB, ^378, *644
George D, ^392
Gerboth G, ^383
Geyer JJ, ^335
Ghatak NR, ^354, *556
Gherardi R, ^344, ^354, *585
Ghetti B, ^352, ^358, ^379, ^387
Giaccone G, ^387
Gieron MA, ^378
Gilles FH, *283
Gillett JMR, ^402
Gilmore SA, ^357
Giordana MT, ^371
Glasberg MR, ^356
Glonek T, *419
Gocht A, ^353
Goebel HH, ^342
Gold BG, ^353, ^358
Golde T, ^365
Goldenberg PZ, ^366
Goldman JE, ^351, ^361, ^374
Goldstein GW, *130
Goodrum JF, ^378, *644
Gordon B, ^338
Goto I, ^364
Grafe M, ^357
Gray F, ^341, ^354, *585
Greene DA, ^380
Greene V, ^345
Gregorios JB, *154, ^346
Griebel RW, ^392
Griffin JL, ^355
Griffin JW, *96, *269, ^353
Grossman RG, ^359
Gurndke-Iqbal I, ^332, ^333, ^374, ^376
Grunnet ML, ^347
Guccion JG, *556
Guth L, ^350

Haas J, ^364
Haider A, ^354, ^396
Hall LD, ^367
Hall WA, ^371
Halleck MM, ^358
Halsey JH, ^403
Hamill RW, ^336
Hamilton SR, ^373
Hammang JP, ^351, ^357
Hansen LA, *262
Hart J, ^338
Hart MN, *141, ^400, *511
Hartmann HA, L507
Hause L, ^383
Hauw JJ, ^341
Hayman LA, ^383
Hedley-Whyte ET, ^342, ^361, ^391
Hedreen JC, ^335
Hickey WF, ^367, ^398
Hinton DR, ^337, ^362, ^399
Hirano A, *28, ^348, ^367
Ho AKS, ^393
Ho KC, ^383
Ho KL, ^390
Hoffman PN, ^353
Hofman FM, ^399
Hogan RN, *461
Holden J, *50
Holt RK, ^347
Hori A, *597
Horoupian DS, ^374, ^386
Hoshino T, ^372
Houghton S, ^397
Hsu DW, ^361
Huckman MS, ^345
Hugenholtz H, ^393
Hyman BT, ^335

Igarashi I, *223
Ihara Y, ^332
Imai T, ^362
Inoue HK, *57
Inoue T, ^364
Iqbal K, ^333, ^376
Ito S, ^403
Iwasaki Y, ^403

Jackson KF, ^351
Jacobsen PF, *431
Jagadha V, ^362
Jenich H, ^379
Jenkyn DJ, *431
Joachim CL, ^338, ^396, *611
Johnson PC, ^397, ^401
Johnson TC, ^400
Jortner BS, ^353, *544

Kairam R, ^344, ^363
Kalichman MW, ^381
Kalimo H, ^346
Kalyan-Raman UP, ^385, ^393
Kamei S, ^344
Kansal N, ^391
Kasantikul V, ^393
Kascsak RJ, ^376
Kaseda YH, ^352, ^358
Kastrukoff LF, ^347
Kato T, ^348
Katsetos CD, ^370
Katz B, ^357
Katzman R, *262
Kaufman MA, ^340
Kaufmann JCE, ^402
Kawano N, ^392
Keegan S, ^353
Kepes JJ, ^382
Kessler JB, ^332
Kim JH, ^343
Kim RC, ^352, ^370
Kim SU, ^347, ^360, ^363
Kimura H, ^398
Kingsley BS, ^333
Kinney HC, *283, ^358, ^360
Kinzler KK, ^373
Kirkpatrick JB, ^383
Kish SJ, ^339
Kitaguchi T, ^364
Kitt CA, *567
Klatzo I, ^401, ^402
Kleihues P, ^372
Klein H, ^342
Kleinschmidt-DeMasters BK, ^356
Kloman AS, *283
Koeppen AH, ^382
Koestner A, ^372
Koga T, ^364
Kondo J, ^332
Konno H, ^403
Koo EH, ^338
Koo H, ^379
Kopp SJ, *419
Kornfeld M, L112
Korthals JK, ^378
Kosik K, ^334, ^376
Kosik KS, *1, ^377, *611
Kowall NW, *1, *12, ^375
Kozolowski M, ^337, ^342
Kozolowski PB, ^382
Krigman MR, *644
Kristt DA, *668
Krivosic I, *585
Krohn KA, ^394
Kromer LJ, ^335
Kunimine H, *57
Kuzuhara S, ^332
Kwon EE, ^366

Lach B, ^363
Langford L, ^351
Lanman TH, ^403
Lapham LW, ^336
Larochelle J, ^345
Latker CH, *302
LeBeau JM, ^381
Leblanc R, ^397
Lebon P, ^366
Lee S, ^375
Lennon VA, *84
Levin R, ^337
Lewandrowski KB, ^386
Lhor J, ^402
Lidsky TI, *544
Linden T, ^346
Lindsley MD, ^369
Linhardt RJ, ^399
Linthicum DS, *511
Liss L, ^336
Little B, ^385
Little BW, ^339

Litwak MS, ^368
Liu HM, ^370, ^378
Llena JF, ^348, ^367
Lofton S, ^370, ^391
Love S, ^369
Low WC, ^352, ^358
Lunsford LD, ^371
Lyman WD, ^365, ^368

McBride RL, ^359, *695
McCarron RM, ^399
McComb RD, *623
McDonald LW, ^389
McEvoy-Bush T, ^341
McFarlin DE, ^399
McKee AC, ^386
McLaughlin MM, ^340
McLellan TL, ^394
McLendon RE, ^389
Madrid RE, ^381
Maeda M, ^384
Mah V, ^369, ^380, ^384
Mai KT, ^363
Major EO, *556
Makley MJ, ^340
Malinakova *407
Manetto C, *544
Manetto V, ^344, ^376
Manuelidis EE, ^343
Manuelidis L, ^343
Markesbery WR, *28, ^336
Martin JB, *12, ^375
Martin JR, ^343, ^347
Martin NA, ^403
Martin-Mondiere C, ^354
Martinez AJ, ^371
Marushige K, ^372
Marushige Y, ^372
Masters CL, ^395
Mastri AR, ^339
Mata M, *485
Mauro A, ^371
Medori R, ^355
Melancon S, ^345
Merrill JE, *84
Mervis RF, ^340
Merz PA, ^333, ^376
Messing A, ^373
Metuzals J, ^397
Meyenhofer MF, *474
Michaud J, ^345
Migheli A, ^371
Miles JM, ^398
Miller CA, ^337, ^342, ^362, ^399
Minshew NJ, *419
Mirra SS, ^377
Mitchell G, ^345
Mitsumoto H, *214
Miyazaki R, ^350, ^351
Mizisin AP, ^380
Mizysawa G, ^348
Mohrmann R, ^369
Monaco S, ^379
Montpetit VJA, ^388, ^393
Moody DM, ^400, ^401, ^402
Moore GRW, ^365, ^366
Moore SA, *141, ^400
Mori H, ^332
Morris JH, ^338, *611
Mortez RC, ^344
Moul JM, *623
Mozes LW, *154
Muller J, ^392
Munoz DG, ^392
Murphy-Corb M, ^349
Mussini I, *315
Myers RR, ^354, 380, ^381
Myint PT, *223

Nag S, ^400
Nagara H, ^364
Nagashima K, ^357
Nagashima T, ^372
Nakagawa Y, *451
Nakamura M, *57
Nakano I, *40, ^341
Natale JM, *239
Nathaniel V, ^380
Neary JT, ^349, ^360
Nelson JA, ^348
Neve R, ^377
Nioka S, ^403
Nonaka I, ^362
Norenberg LOB, *154, ^349, ^360
Norenberg MD, *154, ^349, ^360
Norton J, ^352
Nowak T, ^401, ^402

Ogata A, ^357
Ohtoh T, ^403
Oldstone MBA, ^348
Olson JJ, *682
Ono N, *57
Onorato M, ^334
Oo MM, *223
O'Neil M, *72
Ottoson CK, ^358

Palmiter RD, ^373
Paneth N, ^363
Papadimitriou JM, *431
Papasozomenos SCh, ^345, ^349
Pappolla MA, ^397
Pardridge WM, ^397
Parisi JE, ^370, *556
Parker KL, ^340
Patel S, ^347
Paty DW, ^367
Peckham NH, ^352
Pendlebury WW, ^332, ^388
Pentschev P, ^347
Perentes E, *451, *634
Peress NS, ^384, ^385
Perry G, *185, ^334, ^374, ^376, ^379
Peterson C, ^361
Pettigrew JW, *419
Pezeshkpour G, ^355, ^390
Pinkert CA, ^373
Podlisny M, ^395
Poirier J, ^354, *585
Pollack IF, ^371
Pollock NJ, ^377
Poltorak M, ^352
Poor MM, ^399
Popovitch ER, ^340
Potts BJ, *653
Powell HC, ^109, ^354, ^380, ^381
Powers RE, ^335, *567
Price DL, *269, ^335, ^338, ^350, ^353, ^395, *567
Prineas JW, ^356, ^366, *495
Pruitt JN, 2d, ^359, *695
Prusiner SB, *461

Raab V, ^394
Rabe A, ^334
Raine CS, ^365, ^366, ^368, ^379
Raju N, ^372
Ramakrishna N, ^396
Rao C, ^382
Rapoport SI, *302
Rauser M, ^350
Razavi-Encha FR, ^344
Rechthand E, *302
Reyes MG, ^389
Rhoads RE, *28, ^336
Richardson EP, Jr, *12, ^342, ^375
Richter JA, ^358
Rifai N, ^378, *644
Rigamonti D, ^389, ^401
Robakis NK, ^396
Robitaille Y, ^339, ^397
Robinson RA, *511
Rodriguez M, *84, ^369
Roessmann U, *597
Rogers J, *1
Rojiani AM, ^356, *495
Rosenblum WI, ^396
Rosenfeld J, *269, ^353
Rouah E, ^373
Roytta M, ^379
Rozdilsky B, ^392
Rubenstein R, ^333
Rubin DE, ^360
Rubinstein LJ, *451, *634
Rudelli RD, ^344, ^363
Rudnicka M, ^337
Rustan TD, ^339
Ryschkewitsch CF, ^343

Sacks HJ, *250
Saito T, ^403
Salazar-Grueso EF, ^386
Sarnat HB, ^112
Scheff SW, ^336, ^337
Schelper RL, *72, ^350, ^351, *511
Schiffer D, ^371
Schlaepfer WW, *117
Schmalbruch H, *533

Schmid K, ^378
Schneeberger EE, *239
Schoene WC, *223
Schotland DL, *522
Schroeder CE, ^368
Schultz M, ^395
Selkoe DJ, ^355, ^338, ^395, ^396, *611
Sevlever G, ^395
Shafit-Zagardo B, ^361
Sharer LR, ^349, ^366, ^385, *474
Shasby DM, *141
Shaw CH, ^364
Shek JW, ^338
Shell L, *544
Sher JH, ^382
Sherer JA, ^340
Sheridan EP, ^362
Shibata T, ^372
Shintaku M, ^367
Shuangshoti S, ^393
Sidhu GS, *556
Siebert JR, ^364
Seigleman J, ^384
Sima AAF, ^380
Simon JR, ^358
Simons JE, ^360
Skinner CR, ^388, ^393
Small EJ, *597
Smith DS, ^403
Smith ME, *167
Smith QR, *302
Smith TW, ^390
Sobel RA, *239, ^386, ^398
Soffer D, ^343
Soffietti R, ^371
Spatz M, ^399
Spector AA, ^400
Spence AM, ^371, ^394
Spetzler RF, ^389, ^401
Stanton C, *634
Staple J, *485
Steele JE, ^394
Stender S, *533
Sternberger LA, *269, ^350, ^352, ^353
Sternberger NH, *269, ^350, ^352, ^353
Stewart WA, ^367
Stoner CL, ^343
Street JS, ^387
Struble RG, *567
Sumi SM, ^341
Summers BA, ^397
Sung JH, *200, ^339
Suresh S, ^347
Suzuki K, ^359
Suzuki S, ^343
Sweeney KM, ^344

Tagliavini F, ^387
Takei Y, ^344, ^391
Tamada J, *57
Taratuto AL, ^395
Tassell SK, *511
Tateishi J, ^364
Terry RD, *262
Teuscher C, *223
Thomas C, ^357
Thornton D, ^336
Tobias H, *262
Tomida S, ^401, ^402
Tow JP, ^419
Traugott U, ^365, ^366
Triarhou LC, ^352
Troncoso JC, ^350
Tulipan N, ^346

Ulcickas M, ^340, ^342
Usiak M, ^337, ^365

Vahlsing HL, *695
Vakili ST, ^392
VanDyk LF, *141
Van Hoesen GW, ^335
Vartavarian L, ^380
Vass K, ^401, ^402
Velasco M, ^385, *597
Verity MA, ^384
Vincent D, ^341
Vinters HV, ^369, ^380, ^397, ^403
Viravathana T, ^370
Vogelstein B, ^373
Voisin MC, ^354
Vonsattel J-P, ^342
Vuorinen V, ^379

Waldschmidt MM, *511
Walker DL, ^343
Wang GP, ^376
Warner DS, *682
Warot P, *585
Watabe K, ^360, ^367
Waterston R, ^355
Watson DF, *96
Waxman SG, *167
Weathers S, ^383
Webster HdeF, ^343, ^347
Weidenheim KM, ^391
Wen GY, ^334, ^338
Wentzien J, *72
Whetsell WO Jr, ^346
Whitaker JN, ^394
White WF, ^358
Whitters E, ^351
Wieloch T, ^346
Wierl M, ^340
Wiley CA, ^348, ^357
Williams C, ^342
Wilson D, ^373
Wisniewski HM, ^333, ^334, ^338, ^340, ^376, ^381, ^396
Wisniewski KE, ^334, ^340, ^381
Wolfe G, ^396
Wollmann R, ^386
Wong AJ, ^373
Wood JG, ^377
Wood PM, ^351
Worth SF, ^357
Wrzolek M, ^333, ^376

Yada K, ^392
Yagishita S, ^392
Yamamoto T, ^403
Yamase H, ^347
Yanagihara T, ^383, ^384
Yang J, ^397
Yong VW, ^363
Yoshimura T, *522
Younkin L, ^337
Younkin S, ^337, ^365

Zhu Z, ^359
Zubenko GS, *407

Journal of Neuropathology and Experimental Neurology
Copyright © 1987 by the American Association of Neuropathologists
Vol. 46, No. 6
November, 1987
pp. 707–713

SUBJECT INDEX

A

AANP news, 237, 610
Abnormalities
  Dendritic, 362
  Mitochondrial, 386
Abstracts, 63rd Annual Meeting of the AANP, 317
Acetylcholinesterase, 12
  Asymmetric, 337
Acquired immune deficiency syndrome
  see AIDS
Acrylamide, 358
  Neuropathy, 353
Acrylonitrile, 389
Actin, 185
Adenohypophyses, 363
Adenoma, pituitary, 393, 394
Adenosine triphosphatase, 400
Adrenoleukodystrophy, 359
Adriamycin, 350
Aging, 567
  Central nervous system, 185
AIDS, 344, 348, 380, 385, 388, 474
  Encephalitis, 348
  Encephalopathy, 344, 348
Albumin, 485
Alcoholics, chronic, 340
Aldose reductase, 380
Alexander's disease, 351
Alkaline phosphatase, microvascular, 400
Allergic encephalomyelitis, acute experimental, 367
α-actinin, 185
α_1-acid glycoprotein, 378
Aluminum, 332
Alz-50, 335, 336
Alzheimer neurofibrillary tangles, 367, 377
Alzheimer's disease, 1, 28, 185, 262, 332, 333, 334, 335, 336, 337, 338, 339, 349, 376, 377, 395, 396, 397, 407, 567, 611
Amyloid, 393, 395
  Angiopathy, 338, 397
  Cerebrovascular, 396, 397
  Deposits, 338
  Parenchymal, 396
  Peptide, 396
  Protein, 395
  Vascular, 396
Amyloidosis, primary systemic, 354
Amyotrophic lateral sclerosis, 40, 342, 356
  Subacute, 375
Anemia, sickle cell, 382
Anesthesia, local, 381
Angiopathy, 354
Angleman syndrome, 362
Animation, serial sections, 354
Anionic charge, endothelial, 141
Antibodies
  Monoclonal, 634
  Tau, 376
Antigen
  Capsid, 343
  Class II, 511
  Expression, 337
  Herpes simplex virus, 347
  Large T, 343
  Neurofilament, 353
Antigenic homologies, 399
Antimitotic drugs, 379
Apolipoprotein E, 378, 644
Arachidonic acid, 400
Arctos arctos, 335
Argentophilic neurofilament accumulation, 341
Arteriovenous malformations, 403
Artery, basilar, 382
Astrocytes, 154, 333, 351, 360, 653
  Reactive, 349
Astrocytic reaction, 668
Astrocytoma, desmoplastic cerebral, 395
Astroglia, 352
Atlas, computer-reconstructed, 360
Atrophy
  Multiple system, 341
  Muscular, progressive, 356
  Non-Pick lobar, 375
Auditory pathway, 386
Author index, 703
Autoantibodies, 333
Autoimmune, 511
  Demyelination, 366
Autoimmune encephalomyelitis
  Experimental, 365, 368
  Experimental, chronic relapsing, 365
Autoimmunity, 239
Axolemma, 167
Axonal degeneration, 358
Axonal injury, 200
  Post-concussive, 384
Axonal neuropathy, giant, 379
Axonal regeneration, 353
Axonal sprouting, 668
Axonal transport, 96
  Retrograde, 214
Axonoma, 200
Axonopathy, giant, 381
Axons, 214
  Central, 200
Axoplasmic transport, 350, 351
Axotomy, 214, 269, 695
  Hypoglossal, 350
Ayer estimates, 283

B

Basilar artery, 382
B,B′-iminodipropionitrile, 349, 358
Bear
  see Arctos arctos
Bielschowsky method, 338
Bielschowsky, modified
  see Stains and staining
Biotin probes, 556
Blessed test, 262
Blood–brain barrier, 141, 397
Blood–nerve barrier, 302, 485

Bodian method, 338
Bone marrow transplantation, 369
Book reviews, 114, 232, 508, 609
Books received, 233
Border disease, 653
Brain
  Biopsy, 556
  Fetal mouse, 72
  Hemosiderin, 382
  Infarcts, 385
  Infection, 474
  Microvascular endothelium, 130
  Microvessels, 141, 400
  Neoplasma, 431
  Postmortem, 383
  Primary lymphoma, 348
  Stem, 200, 384
    Human infant, 358
  Trauma 668
Brain specific hyaluronectin, 361
Brodmann area 9, 337
Bromocriptine, 394
Bronchogenic small cell, carcinoma, 370
Bunina bodies, 387

C

Calcium, 344
Calmodulin, 393
Canine distemper encephalitis, 397
Capillaries, 302
Carbonic anhydrase C, 451
Carcinoma, bronchogenic small cell, 370
Cardiac transplants, 402
Cartilage, 390
Cathepsin D, 394
Cationic ferritin, 141
Cavernous malformation, 401
Cell culture, 57, 154
  Reaggregate, neural, 72
Cell death, 695
Cell lines, 431
Cells
  Glial tumor, 371
  Glioma, 372
Central nervous system
  Aging, 185
  Development, 283
  Human, 347
Central potine myelinolysis, 356
Central primitive neuroectodermal, tumors, 373
Cerebellar plaques, 338
Cerebellopontine angle, 390
Cerebral
  Amyloid angiopathy, 397
  Cortex, 1, 342
  Edema, 682
  Endothelial cell. 399
  Endothelium, 400
  Glycosidases, 343
  Granular cell tumors, 112
  Ischemia, 383
  Malaria, 223
  Metastases, 370
  Microvascular, 239
  Transplants, 352
  White matter, 342
Cerebromicrovascular endothelium, 399
Cerebrospinal fluid, cytology, 344
Ceroid-lipofuscinosis, infantile neuronal, 342
Ceroid pigment, 585
ChaT
  see Cholineacetyltransferase
Child development disorders, 283
Cholchicine, 351
Choline, 340
Cholineacetyltransferase, 339
Chordoma, 393
Choroid plexus, neoplasms, 373
Chronic relapsing experimental autoimmune encephalomyelitis, 365
Ciliary processes, 384
Clarke's column, 359, 695
Clioquinol, 357
Cocksackie B 1 virus, 344
Cognitive impairment, 336
Cold injury, 384
Collagen, Type VI, 623
Congenital hydrocephalus, 364
Corpora amylacea, 345
Corpus callosum, 401
Corticosteroids, 682
Creutzfeldt-Jakob disease, 343, 387
Cyst, glioependymal, 390
Cytogenetics, 431
Cytology, cerebrospinal fluid, 344
Cytomegalovirus, murine, 72
Cytoskeleton, 185

D

Deafness, 386
Degeneration
  Axonal, 358
  Multisystem, 339
  Muscle, 522
  Wallerian, 644
Degenerative diseases, 419
Delayed myelination, 283
Dementia, 338, 339
  Aphasic, 387
de Morsier syndrome, 597
Demyelinating diseases, 167, 239, 364
Demyelination, 84, 544, 644
  Autoimmune, 366
  Electrolyte-induced, 495, 356
  Periventricular, 397
Dendrites, 1, 461
Dendritic abnormalities, 362
Dendritic growth, 340
Dendritic sprouting, 668
Denervation, muscle, 315
Diabetes mellitus, 302, 378, 383
Diabetic neuropathy, human, 380
Differentiation, neuronal, 370
Dinitrofluorobenzene, 355
Diseases
  Alzheimer's, 396, 397
  Demyelinating, 167
  Graft-versus-host, 398
  Lewy body, 374
  Motor neuron, 386
  Virus, unconventional, 395
Distemper, canine, 397

cDNA, 396
Human MAP2, 377
Down Syndrome, 334, 396
Drugs, antimitotic, 379
Duchenne, 355
Dystrophy
Infantile neuroaxonal, 381
Muscular, 522

E

Edema, 302
Electrolyte-induced demyelination, 495
Electron-dense knobs, 223
Electron microscopy, 84, 474
Embolotherapy, 403
Encephalitis, 344, 345
Brain stem, 343
Canine distemper, 397
Encephalomyelitis
Allergic, 239
Acute experimental, 367
Experimental allergic, 167, 239
Experimental autoimmune, 250, 365, 368
Chronic relapsing, 365
Murine, 369
Encephalopathy, 346
AIDS, 344
Endothelial
Anionic charge, 141
Cell, cerebral, 399
Glycocalyx, 141
Permeability, 141
Endothelium, 141
Cerebral, 400
Cerebromicrovascular, 399
Ependymoma, 392
Epilepsy, complex partial, 359
Erratum, 608
Ethnic distribution, 390
Extracellular matrix, 623
Eye
Rabbit, 384
Fetal mouse brain, 72

F

Fibromuscular hyperplasia, 382
Fibronectin, 623
Fluorescence spectroscopy, 407
Focal junctions, 223
Folliculo-stellate cells, 363
Freeze fracture, 522
Frozen sections, 389

G

Gammopathy, monoclonal IgG, 354
Ganglia mineralization, 344
Gaucher's disease, infantile, 357
Gene
Amplification, 373
Dose effect, 334
N-MYC, 373
SV40, 373
Gerbil, 383, 384, 401, 402
Gerstmann-Straussler syndrome, 338
GFAP
see Glial fibrillary acidic protein
Giant axonal neuropathy, 379
Glia, radial, 352
Glial fibrillary acidic protein, 361, 393, 634
mRNA, 361
Glial maturation factor, 372
Glial tumor cells, 371
Glioblastoma
Granular cell, 112
Multiforme, 388, 389, 431
Glioependymal cyst, 390
Glioma cells, 372
Gliomas, 451, 623
Malignant, 371
Malignant, human, 373
Optic, 391
Gliosarcoma, 391
Glutamate, 346
Glycocalyx, endothelial, 141
Glycosidases, cerebral, 343
Golgi technique, 461
Grafts
Ventral mesencephalic, 352
-versus-host disease, 398
Granular cell glioblastoma, 112

H

Hamartoma, 391
Hamster, 343, 461
Hemangiopericytoma, 50, 57
Hemorrhage, intracerebellar, 363
Hemosiderin brain, 382
Hepatorenal tyrosinemia, 345
Herpes Simplex virus, 347
Antigen, 347
Type 2, 343
High-density-lipoprotein deficiency, 533
Hippocampus, 28, 567
Hirano bodies, 185
Histocompatibility complex, major, 239, 398
HIV
see Human immunodeficiency virus
Horn cells, lateral, 341
Horseradish peroxidase, 130
HTLV-III-like particles, 348
Human infant
Brainstem, 358
Medulla, 360
Human immunodeficiency virus, 349, 474
Human MAP2 cDNA, 377
Huntington's disease, 12, 342, 375
Hyaluronectin, brain specific, 361
Hybridization, *in situ*, 365, 556
Hydrocephalus, 340
Congenital, 364
Hydrogen-ion concentration (pH), 154
12-Hydroxyeicosatetraenoic acid, 400
Hypertension, 383, 400
Hyperthermia, 388
Hypoglycemia, 346
Hypopituitarism, 597
Hypothalamus, 597

I

Ia, 239
IDPN
  see β,β′-iminodipropionitrile
IgG, 366
Immunity, cellular, 511
Immunocytochemistry, 1, 12, 269, 485
Immunohistochemistry, 50, 57, 451, 634
Immunosuppression, 250
Imprint preparations, 389
In memoriam, 109, 505
Infantile
  Gaucher's disease, 357
  Neuroaxonal dystrophy, 381
  Neuronal ceroid-lipofuscinosis, 342
Infarcts
  Brain, 385
  Cerebral, 200
Injury
  Axonal, 200
  Hypoxic-ischemic perinatal, 385
  Spinal cord, 350, 695
In situ hybridization, 356, 556
Interferon-γ, 366
Interstitial radiation, 388
Intracellular hemorrhage, 363
Iron, 344
Ischemia
  Cerebral, 383
  Experimental brain, 403
  Rat forebrain, 403
Ischemic attacks
  Repeated, 402
  Transient, 401

J

JC virus, 343, 556

K

Kainic acid, 346
Keratin, 50
Krigman, Martin Ross, M.D., 505

L

Lactic acid, 154
Lacunes, 402
Lafora body disease, 345
Lampert, Peter Wilhelm, M.D., 109
Large motor neurons, 341
Lateral horn cells, 341
Lead
  Neuropathy, 378
  Poisoning, 644
Lentivirus, 474
Lesions, malformative, 359
Letters-to-the-Editor, 112, 507
Leukodystrophy, 359
  Orthochromatic, 585
  Sudanophilic, 585
Leukoencephalopathy, multifocal, progressive, 556
Lewy body, 374
  Disease, diffuse, 374
Lipoprotein deficiency, high-density, 533
Locus coeruleus, 374
Lyme disease, 344
Lymphoma
  Brain, primary, 348
  Central nervous system, primary, 388

M

Machado-Joseph disease, 341
Macrophages, 250, 682
Magnetic resonance imaging, 345, 364, 367, 385, 389
Major histocompatibility complex, 239, 398
Malformations
  Arteriovenous, 403
  Cavernous, 401
  Lesions, 359
Medulla, human infant, 360
Medulloblastomas, 370, 390, 623
Megalencephaly, 364
Membrane
  Filters, 668
  Ultrastructure, 167
Meningiomas, 57, 370, 392, 393
  Angioblastic, 50
Meningoradiculitis
  see Lyme disease
Meningoradiculitis tick, 344
Metastases, cerebral, 370
Methotrexate, 346
Mice
  Adult weaver mutant, 352
  Athymic nude, 369
  Nude, 431
Microglia, 350, 398
Microscopy
  Electron, 84, 474
  Scanning electron, 57
  Transmission electron, 57
Microtubule-associated protein, 611
  Protein 2, 1
  Tau, 376, 611
Microvascular
  Alkaline phosphatase, 400
  Cerebral, 239
Microvessels, brain, 130, 141, 400
Mineralization, ganglia, 344
Mitochondrial abnormalities, 386
Monoclonal antibodies, 634
Monoclonal IgG, 354
Morphometry, 262, 315
Motoneurons, 533
Motor neurons, 214
  Disease, 386
  Large, 341
Mouse
  Brindled, 361
  Hypomyelinated, 347
  LSCD-Balb/C, 347
  Mutant, 347
  Mutant, weaver (wv/wv), 358
MRI
  see Magnetic resonance imaging
Multifocal leukoencephalopathy, progressive, 556
Multiple sclerosis, 84, 366, 367
Multiple system atrophy, 341
Multisystem degeneration, 339

Muscle
Biopsies, 356
Degeneration, 522
Disease, 355
Regeneration, 315, 522
Skeletal, 315, 511
Muscular atrophy, progressive, 356
Muscular dystrophy, 522
Becker type, 355
Duchenne type, 355
Myelin deficient rat, 351
Myelination, 283, 368
Delayed, 283
Myelinolysis
Central pontine, 356
Myelo-optic neuropathy, subacute, 357
Myosin ATPase, 355
Myositis, 511
Myotubes, 511

N

N-3-pyridylmethyl-N′-p-nitrophenylurea (PNU), 96
N-nitrosoethylurea, 372
NADPH-diaphorase, 12
Neocortex, 262
Neonates, very low birth weight, 363
Neoplasms
Brain, 431
Central nervous system, primary, 389
Choroid plexus, 373
Experimental, 431
Neuroepithelial, 451
Neostriatum, 12, 352
Neovascularization, 371
Nerve growth factor, 372, 378
Regeneration, 381
Neurites, 567
Neuritic plaques, 262, 334, 336, 337, 338
Neuroaxonal dystrophy, infantile, 381
Neurochemistry, 262
Neuroepithelial neoplasms, 451
Neuroepithelial tumors, 372
Neurofibrillary
Changes, 340
Tangles, 28, 262, 333, 334, 335, 336
Neurofibroma, 634
Neurofibromatosis, 388
Neurofilament accumulation, argentophilic, 341
Neurofilament epitopes, 375
Neurofilaments, 117, 269, 332, 350, 352, 379
Antigens, 353
Phosphorylation, 350
Neuroglia, 431
Neuroma, 634
Neuronal
Cytoskeleton, 374
Differentiation, 370
Loss, 28
Plasticity, 668
Storage disease, 533
Neurons, 653
Clark's column, 359
Lower motor, 40
Neuropathy, 96, 354
Acrylamide, 353
Diabetic, human, 380
Giant axonal, 379
Hereditary sensory, 386
Lead, 378
Multifocal hypertrophic, 388
Peripheral, 302, 544
Riboflavin-deficiency-induced, 353
Subacute myelo-optic, 357
Taxol-induced, 379
Neuropeptide Y, 12
Neuropeptides, 567
Neurophysin, 567
Neurotoxicity, local anesthetic, 381
Neurovascularity, 682
Nuclear bridges, 348
Nuclear magnetic resonance
^{31}P, 419
Nucleus basalis of Meynert, 365
Nude mice
see Mice

O

Occlusion, common carotid, 403
Olfactory bulb, 336
Oligodendrocyte, 347, 351, 359, 360, 365, 366, 653
Oligodendrogliomas, 372, 391
Olivopontocerebellar atrophy, 339
Opiate receptor, 358
Optic gliomas, 391
Optic nerve, amyelinated, 353
Organotypic culture, 368
Orosomucoid, 378
Orthochromatic leukodystrophy, 585

P

^{31}P nuclear magnetic resonance, 419
Paired helical filaments, 332, 333, 334, 376, 377
Palsy, progressive supranuclear, 387
Pathology, vascular, 354
Pericyte, 50
Perineurium, 302
Peripheral nerves, 302, 345, 351, 353, 354, 380, 485
Peripheral neuropathy, 544
Periventricular demyelination, 397
Permeability, endothelial, 141
Peroxidase (HRP), 214
Phagocytosis, 360
Phorbol ester, 360
Phosphatidylcholine, 340
Phospholipids, 419, 585
Phosphorous, 344
Phosphorylation, 269
Neurofilament, 350
Pick's disease, 374
Pituitary adenoma, 393, 394
Pituitary gland, human, 361
Plasma membrane, 522
Plasmalogens, 585
Plasmodium falciparum, 223
Platelet membranes, 407
Postmortem brain, 383
Presidential address, 117
Progressive muscular atrophy, 356

Progressive supranuclear palsy, 387
Prolactinomas, 394

Q

Quantitative cytophotometry, 28

R

Rabbit, eye, 384
Radial glia, 352
Radioprotection, 394
Rat
  Fisher-344, 389
  md, 353
  Myelin deficient, 351
  Wistar, shaking Kawasaki, 362
Reactive synaptogenesis, 668
Referees, 1986, 115
Regeneration, 84, 200, 214
  Axonal, 353
  Muscle, 315, 522
  Nerve, 381
  Sensory neuron, 381
Remyelination, 84, 353, 544, 644
Retina, 342
  Human, 362
  Mouse, 362
Retrograde axonal transport, 214
Retrovirus, 474
Rhabdomyolysis, 355
Riboflavin-deficiency, 544
  -Induced-neuropathy, 353
Ribonuclease-inhibitor, neutral, 339
RNA, 366
  Neuronal, 28, 507
Rosenthal fibers, 351

S

S-2-[(3-methylaminopropyl)amino]ethyl sodium phosphorothioate (WR3689), 394
Schwann cells, 351, 363, 544, 653
  Intraspinal, 357
Schwannoma, 634
Sciatic nerve, 644
Scrapie, 461
Senile plaques, 1, 335, 395, 567
Sensory neuron regeneration, 381
Septo-optic dysplasia, 597
Serial section, animation, 354
Shaking rat Kawasaki
  see Rat
Sickle cell anemia, 382
Siderosis, 382
SIDS
  see Sudden infant death syndrome
Silver stain, 335
Simian immunodeficiency virus, 349
SIV/Delta
  see Simian immunodeficiency virus
Skeletal muscle, 315, 511, 522
Slow viruses, 461
Small cell carcinoma, 370
Smear preparations, 389
Smith-Lemli-Opitz syndrome, 386
Somatostatin, 12, 375
Spinal border cells, 342
Spinal cord, 167, 351, 367
  Injury, 350, 695
  Lumbar, 40
  Transection, 359
Spinal ganglia, 533
Spinopontine atrophy, 341
Spirogermanium, 250
Stains and staining
  Beilschowsky, method, 338
  Bielschowsky, modified, 40
Steroids, protective effect, 495
STLV-III
  see Simian immunodeficiency virus
Storage disease, neuronal, 533
Straight filaments, 334
Subject index, 707
Substance P, 361, 375
Sudanophilic leukodystrophy, 585
Sudden infant death syndrome, 358, 364
Synapse, 337
Synaptogenesis, reactive, 668
Syndromes
  AIDS, 344, 348, 380, 385, 388, 474
  de Morsier, 596
  Down, 344, 396
  Gerstmann-Straussler, 388
  Smith-Lemli-Opitz, 386
  Sudden infant death, 358, 364
  Syringomyelia-like, 533
Syringomyelia-like syndrome, 533

T

Tangier disease, 533
Tau, 334, 611
  Antibodies, 376
Tau protein, 333, 345
  Microtubule associated, 376
  Phosphorylated, 349
Taxol-induced neuropathy, 379
Telangiectases, 401
Tellurium, 357
  Neuropathy, 644
Theiler's virus, 84, 369
Thioflavin S method, 338
Thrombosis, 382
Tight junctions, 130
Tissue cultures, 511, 653
Touch preparations, 371
Transection, spinal cord, 359
Transient ischemic attacks, 401
Transplantation, bone marrow, 369
Transplants
  Cardiac, 402
  Cerebellar, 352
  Nostriatal, 346
Transport
  Axoplasmic, 350
Trauma, brain, 668
Tropomyosin, 185
Tubulin, normal brain, 377
Tumors
  Central nervous system, primary, 390
  Central primitive neuroectodermal, 373
  Familial malignant, 392
  Granular cell, cerebral, 112

Intracranial, primary, 394
Neuroepithelial, 372
Type VI collagen, 623
Tyrosinemia, hepatorenal, 345

U

Ubiquitin, 332
Urea, 130

V

Vacor, 96
Vascular pathology, 354
Ventral mesencephalic grafts, 352
Vimentin, 50
Virus diseases, unconventional, 395

W

Wallerian degeneration, 644
Wobbler mice, 214

X

X-irradiation, 682
X-ray, high resolution, 402